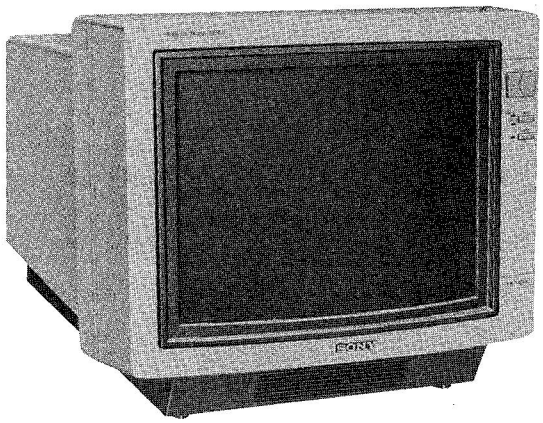
KX-14CP1

AEP Model
Chassis No. SCC-667A-A

UK Model
Chassis No. SCC-666A-A

French Model
Chassis No. SCC-672A-A



May, 1985

SPECIFICATIONS

Pictrure tube — Fine-pitch Trinitron tube
13-inch picture measured diagonally
14-inch picture tube measured diagnally

Inputs/outputs

	Type	Video	Audio
VIDEO IN	Phono jack BNC type	1 V p-p, 75 ohms unbalanced, sync negative, 1 kilohm	436 mV rms (100% modulation) 47 kilohms

ANALOG MULTI/ANALOGIQUE RGB input (21-pin)
See "Singal assignment".
DIGITAL RGB input (8 pin)
See "Signal assignment".

Power requirements
110–240 V AC, 50/60 Hz

Power consumption
85 W (max.)

Dimensions — Approx. 385 × 342 × 434 mm (w/h/d) (15 1/16 × 13 1/2 × 17 1/8 inches) incl. projecting parts and controls

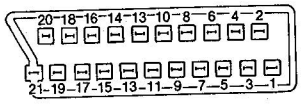
Weight — Approx. 12.8 kg (28 lb 5 oz)

Accessories supplied
Foot (2)

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification of any point is required.

SIGNAL ASSIGNMENT

ANALOG MULTI/ANALOGIQUE RGB input connector



21-pin SCART connector in accordance with the requirements of CENELEC standard

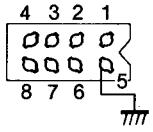
Pin. No.	Signal
1	Audio (B) output
2	Audio (B) input
3	Audio (A) output
4	Earth
5	Earth
6	Audio (A) input
7	Blue input 0.7 Vp-p 75 ohms
8	N.C.
9	Earth
10	N.C.
11	Green input 0.7 Vp-p 75 ohms
12	N.C.
13	Earth
14	Earth
15	Red input 1 Vp-p 75 ohms
16	Blanking input
17	N.C.
18	Earth
19	Video output 1V p-p 75 ohms
20	Video input 1 Vp-p 75 ohms
21	Earth

TRINITRON®
COLOR MONITOR
SONY®

MICROFILM

MON

DIGITAL RGB input connector



Pin. No.	Signal	Signal level
1	Intensity input	High: * Low: Half tone TTL level
2	Red input	Positive polarity TTL level
3	Green input	
4	Blue input	
5	Ground	—
6	Ground	—
7	H. sync input	TTL level
8	V. sync input	

*When connecting a microcomputer with which + 12 V DC is applied to 1 pin, use a connector with the 1 pin opened. Otherwise the protective Zener diode may be damaged.

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SAFETY-RELATED COMPONENT WARNING !!

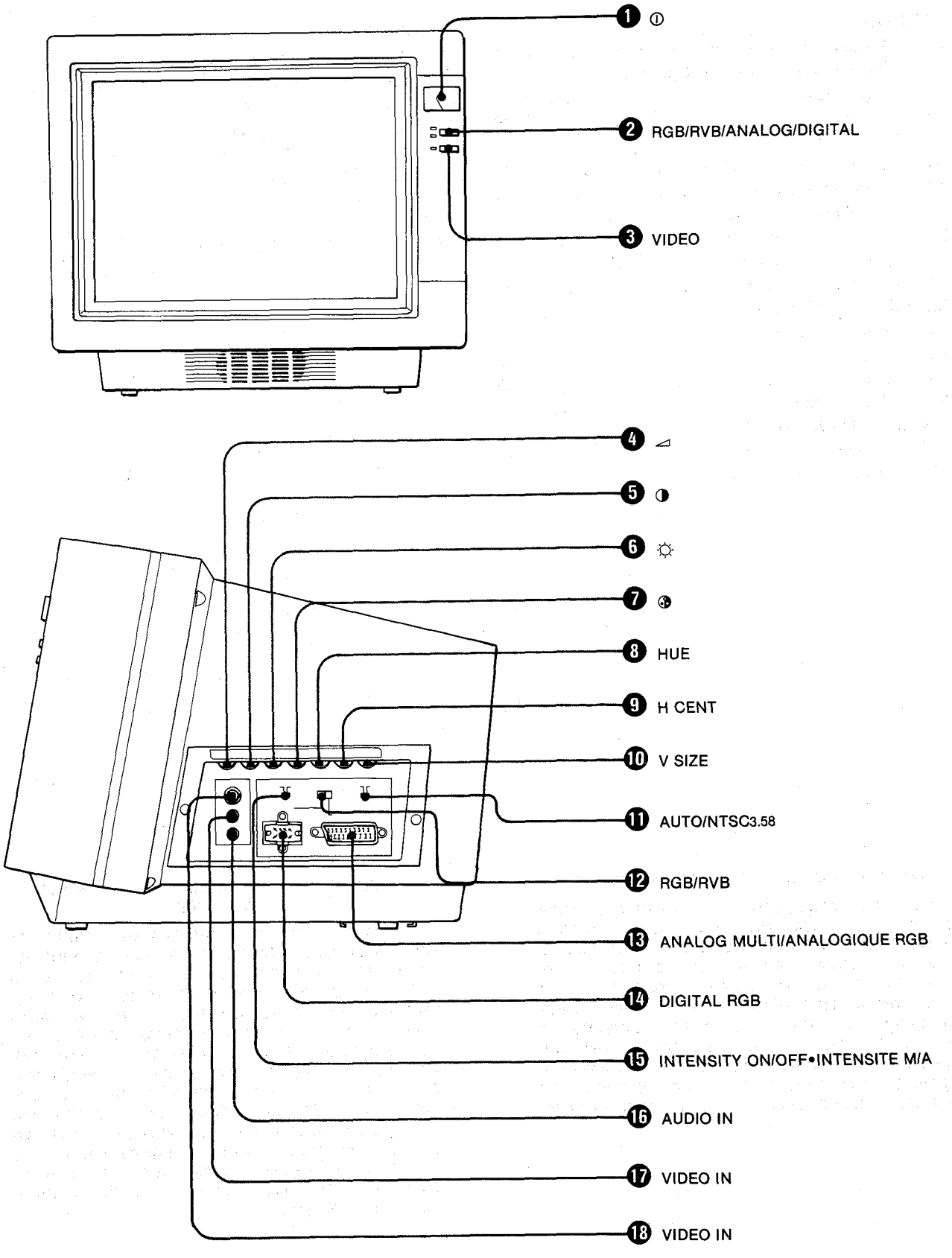
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS



❶ ⏻ **(power) switch**
Press to turn the unit on. Press again to turn off.

❷ **RGB/RVB button and ANALOG and DIGITAL indicators**
Press to view the signals from equipment connected to the ANALOG MULTI/ANALOGIQUE RGB input connector or the DIGITAL RGB input connector. The indicator of the RGB input select lights up.

❸ **VIDEO button and indicator**
Press to view the signals from the VIDEO IN jacks. The indicator lights up.

❹ **(volume) control**
Turning clockwise increases the volume of the equipment connected or turning anticlockwise decreases the volume.

❺ ◑ **(picture) control**
Turning clockwise increases contrast with vivid colour and turning anticlockwise decreases contrast with soft colour.

❻ ☼ **(brightness) control**
Turn clockwise for more brightness and trun anticlockwise for less brightness. Optimum level will be obtained with this control at the centre detent position.

❼ **(colour) control**
Turn clockwise for more colour intensity or turn anticlockwise for less colour intensity.

❽ **HUE control**
Turning clockwise makes skin tones greenish and turning anticlockwise makes them purplish.

❾ **H CENT (horizontal centering) control**
Usually set this control at the center detent position. When equipment is connected to the unit at the ANALOG MULTI/ANALOGIQUE, DIGITAL RGB input connectors and VIDEO (either phono or BNC type) inputs, the display may be shifted off center to the left or right of the screen. In this case, center the display by turning this control clockwide or anticlockwise. The display moves in the opposite direction the control is turned.

❿ **V (vertical) SIZE control**
Usually, turn this control fully clockwise. To reduce the picture size vertically, turn it anticlockwise. Pictures of the equipment connected to the ANALOG, DIGITAL RGB connectors, and VIDEO (phono and BNC type) inputs can be adjusted.
When turning the control anticlockwise, RGB rasters sometimes appear at the top of the screen, depending on the computer used.

⓫ **AUTO/NTSC3.58 system select switch**
Usually set this switch to AUTO. When receiving NTSC3.58 system signals, set this switch to NTSC3.58 for better reception.

⓬ **RGB/RVB input select switch**
Set this switch at DIGITAL or ANALOG MULTI/ANALOGIQUE to view RGB input signals.

⓭ **ANALOG MULTI/ANALOGIQUE RGB input connector (21 pin)**
Connect to the analog RGB multi output connector of a video cassette recorder, video disc player, microcomputer, monitor, etc., which has an analog RGB output connector.

⓮ **DIGITAL RGB input connector (8 pin)**
Connect to the digital RGB output connector of a microcomputer, etc., which has a digital RGB output connector.

⓯ **INTENSITY ON/OFF•INTENSITE M/A input select switch**
Usually set this switch at OFF. When a microcomputer or a TV tuner is connected to the DIGITAL RGB connector and its pin number 1 is used for the intensity input, set this switch to ON.

⓰ **AUDIO IN (input) jack (phono type)**
Connect to the audio output of a video cassette recorder, video disc player, microcomputer, monitor, TV tuner etc.

⓱ **VIDEO IN (input) jack (phono type)**
Connect to the video output of a video cassette recorder, video disc player, microcomputer, monitor, etc., which has phono type video output jack.

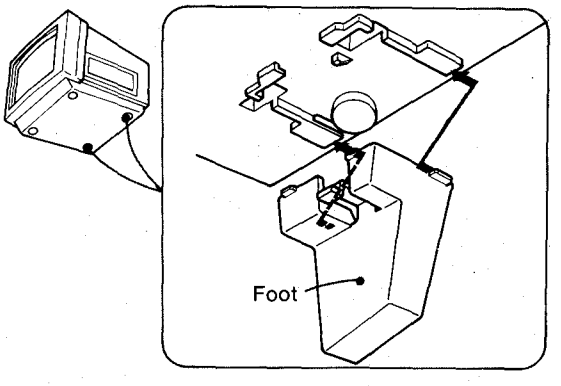
⓲ **VIDEO IN (input) jack (BNC type)**
Connect to the video output of a video cassette recorder, video disc player, microcomputer, monitor, etc., which has BNC type video output jack.

Caution:
Use either the phono type or BNC type VIDEO input connector, but not both simultaneously.

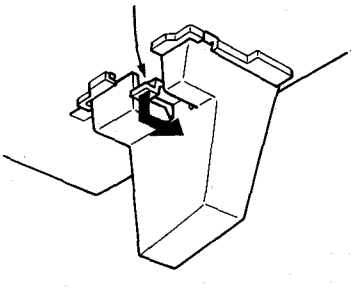
FEET

To set the screen vertically
Attach the supplied feet to the bottom of the unit as illustrated.

Attach the foot indicated "R" to the right and the one indicated "L" to the left. Fully insert the projections of the foot into the hooks.



To remove
While pressing down the tab, pull out the foot.



1-2. APPLICATIONS WITH OTHER OPTIONAL EQUIPMENT

This unit is equipped with various multiconnectors for your desired equipment to be connected.

VTR CONNECTION

Be sure to use a connecting cable that matches the connector of your VTR (or portable VTR). Read the instruction manual of the VTR if you are not sure what type of connectors your VTR has.

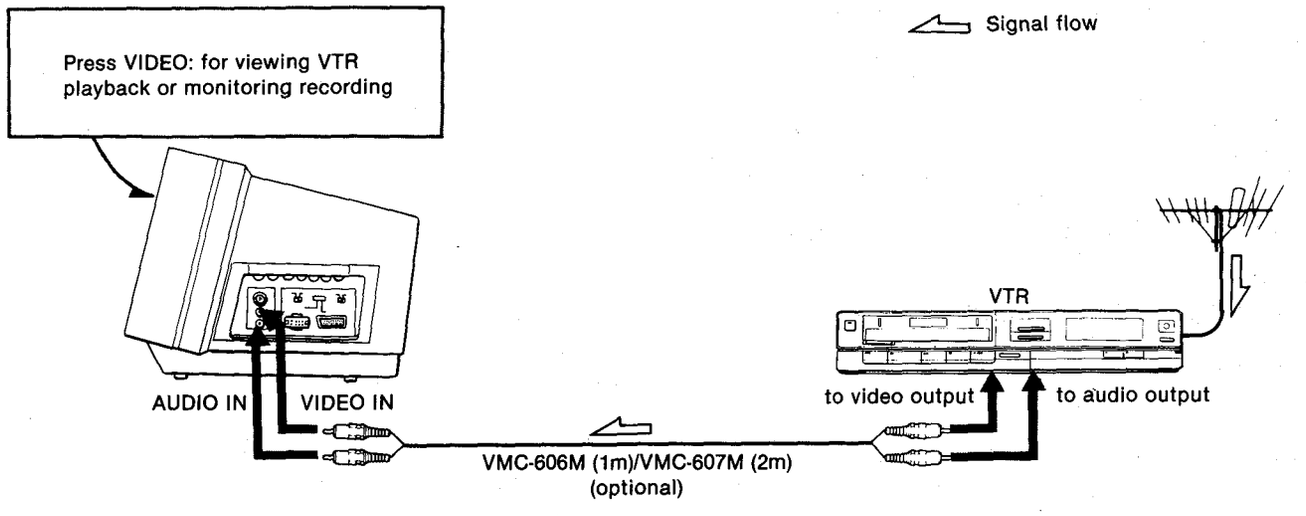
Keep the VTR away from the unit, if the display or sound is affected.

NOTES ON CONNECTION

- Before connecting, make sure that the power to each piece of equipment is turned off.
- The plugs should be fully inserted into the jacks or connectors. A loose connection may cause hum and noise.
- Match the colour when connecting the plugs to jacks.

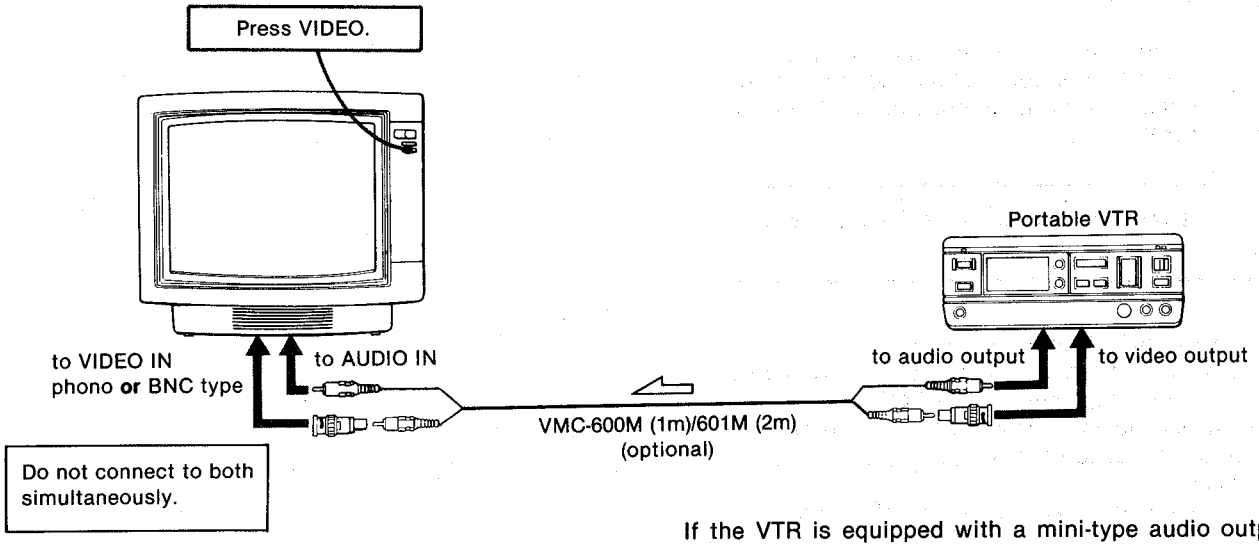
VTRs that are capable of receiving TV broadcasts
With this you will be able to—

- View the playback of tapes
- Record TV programmes and monitoring recording
- View a TV programme



If the VTR is equipped with a mini-type audio ouptut jack, use the optional PC-21M plug adaptor.

Portable VTRs that are not equipped with or connected to a TV tuner—for playing back recorded tapes



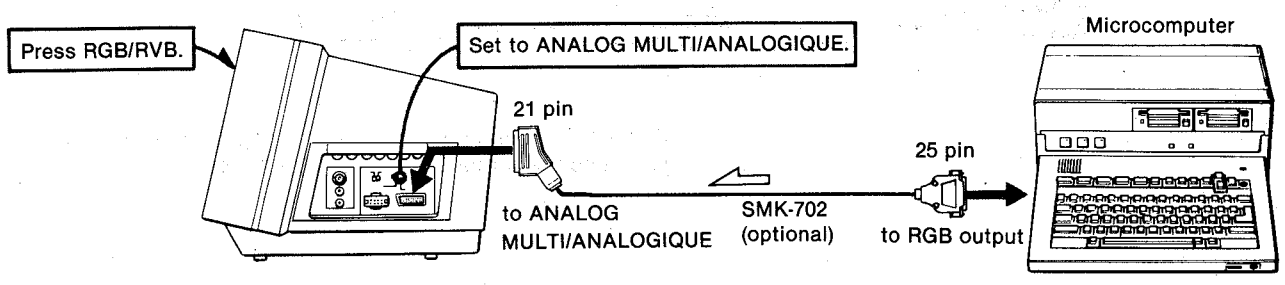
If the VTR is equipped with a mini-type audio output jack, use the plug adaptor supplied with the VMC-612MS video cable.

Caution
When you connect a VTR to the phono connector and another to the BNC connector at the same time, the display may be affected. Use only one of these connectors and the ANALOG MULTI/ANALOGIQUE connector when you need to connect two VTRs.

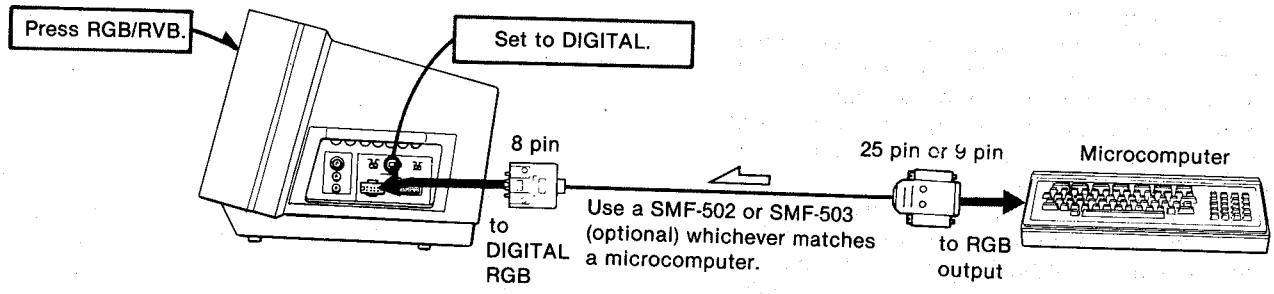
Use an appropriate connecting cable to connect the VTR to the ANALOG MULTI/ANALOGIQUE RGB (21 pin) input connector.
In this case press the RGB button, and check that the RGB/RVB input select switch is switched to ANALOG MULTI/ANALOGIQUE so that the picture is displayed.

MICROCOMPUTER CONNECTION

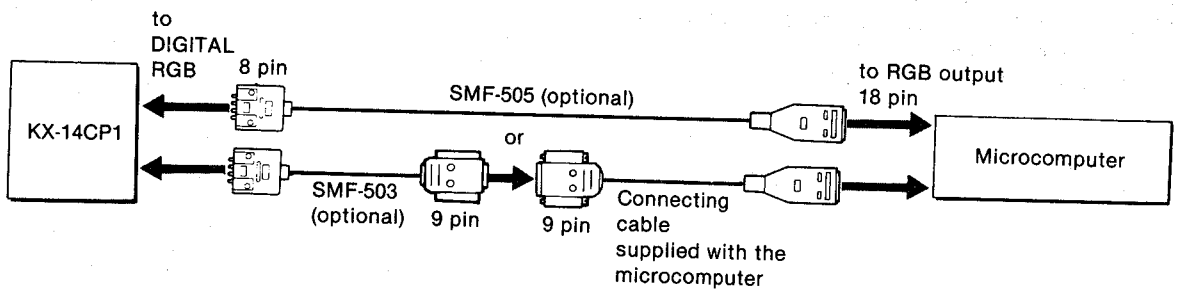
Microcomputer with analog RGB output



Microcomputer with digital RGB output

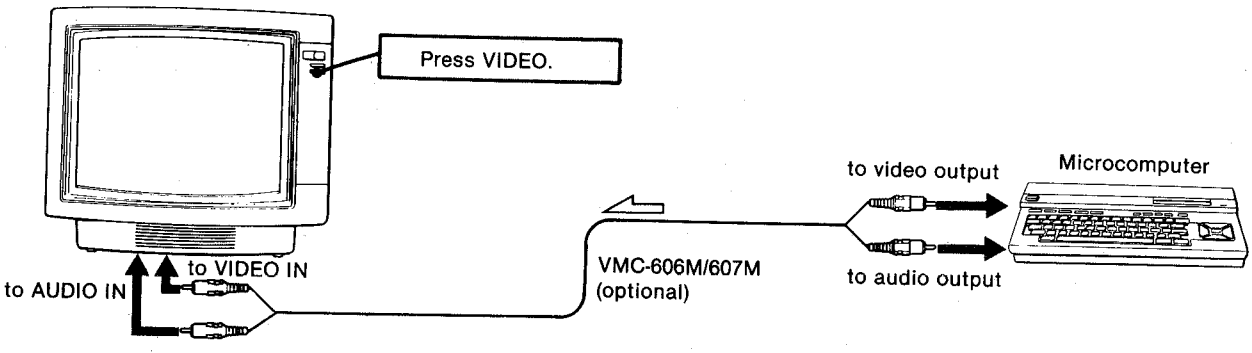


If the microcomputer is equipped with an 18-pin RGB output, connect as follows.



If the microcomputer is equipped with an audio output jack, the sound from the microcomputer can be heard by connecting the audio output jack to the AUDIO IN jack of the unit.

Microcomputer with video and audio outputs



If your microcomputer is equipped with a mini-type audio output jack, use the optional plug adaptor PC-21M.

1-3. FEATURES

- **New black-tinted picture tube** with more finely pitched aperture grille (0.37mm) for higher resolution, higher contrast picture
- **New Sharp Focus Electron Gun** for clear and crisp images with remarkably improved sharpness all the way to the edges and corners of the screen
- **Digital RGB input (8-pin) and analog RGB multi-connector (21-pin)** for connecting a microcomputer or other equipment
- **Selectable video inputs,** BNC type or phono type
- **Intensity input select switch** to receive signals fed through pin number 1 of the DIGITAL RGB input
- **Wide range video frequency circuitry** for 2000 characters and for beautiful color graphics display from a microcomputer
- Correctable horizontal position and vertical size for RGB and VIDEO input pictures
- PAL/SECAM/NTSC4.43 systems acceptable automatically (switchable to NTSC3.58)
- Compact, easy-to-view slant design